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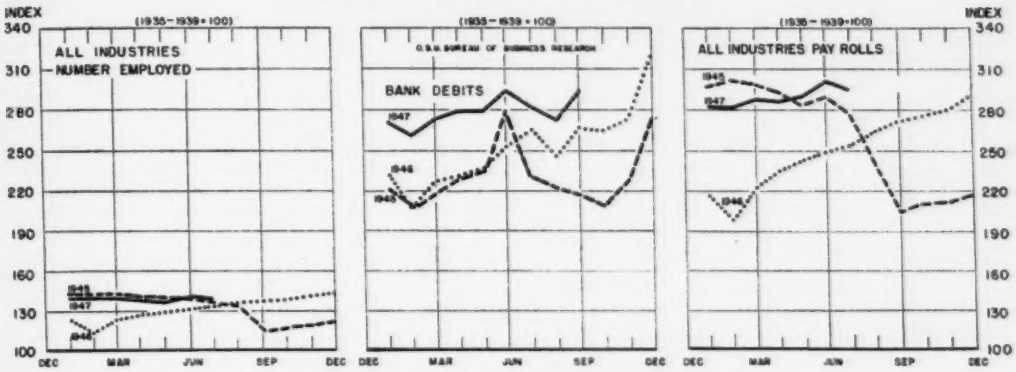
INDEXES OF OHIO BUSINESS



The Trend of Business

IN THE UNITED STATES

Business Activity for the 4 weeks ending October 18 was up fractionally from the previous 4 weeks, 7 per cent from the corresponding period in 1946, and for the first three quarters of the year was 12 per cent above the same period last year, according to the New York *Times* Index of Business Activity.

Freight Car Loadings for the same 4-week period were up 6 per cent from the previous 4 weeks, 4 per cent from the corresponding period of 1946, and for the first three quarters of the year were 9 per cent above the same period last year.

Bank Debits outside New York City were up 11 per cent in September from August, and from September, 1946, and for the first three quarters of the year were 13 per cent above the same period last year.

Industrial Production as measured by the Federal Reserve Board Index was up 2 per cent in September from August, 3 per cent from September, 1946, and for the first 9 months of the year was 11 per cent above the same period last year.

Electric Power Production was down 1 per cent in September from August, but was 14 per cent above September, 1946, and for the first 9 months of the year was 16 per cent above last year.

Bituminous Coal Production was up 3 per cent in September from August, 1 per cent from September, 1946, and for the first 9 months of the year was 15 per cent above the same period last year.

Steel Production was up fractionally in September from August, 3 per cent from September, 1946, and 33 per cent for the first 9 months of the year, as compared with last year. The steel industry operated at 91 per cent of capacity in September as compared with 90 per cent in August.

Pig Iron Production was down 2 per cent in September from August, but was 2 per cent above September, 1946, and for the first 9 months of the year was 36 per cent

(Continued on Page 2)

IN OHIO

Bank Debits in the 16 Ohio cities increased 8 per cent in September from August, 10 per cent from September, 1946, and 15 per cent for the first 9 months of the year as compared with the same period last year.

Agricultural Income increased 2 per cent in September from August, was 70 per cent above September, 1946, and for the first 9 months of the year was up 21 per cent from last year. The increase from September over last year was due in large measure to a substantial increase in income from meat animals.

Electric Power Production was up 7 per cent in September from August, 20 per cent in September, 1946, and 27 per cent for the first 9 months of the year as compared with last year.

Bituminous Coal Production was up 3 per cent in September from August, 6 per cent in September from 1946, and 18 per cent for the first 9 months of the year.

Retail Trade reflected the business up-trend in the nation. Sales of independent retailers were up 5 per cent in September from August, 11 per cent from September, 1946, and 13 per cent for the first 9 months of the year. Department store sales were up 18 per cent in September from August, 10 per cent from September, 1946, and 6 per cent for the first 9 months of the year.

Dyers and Cleaners Sales gained 21 per cent in September from August, 5 per cent from September last year, and 2 per cent for the first 9 months of the year as compared with the same period in 1946.

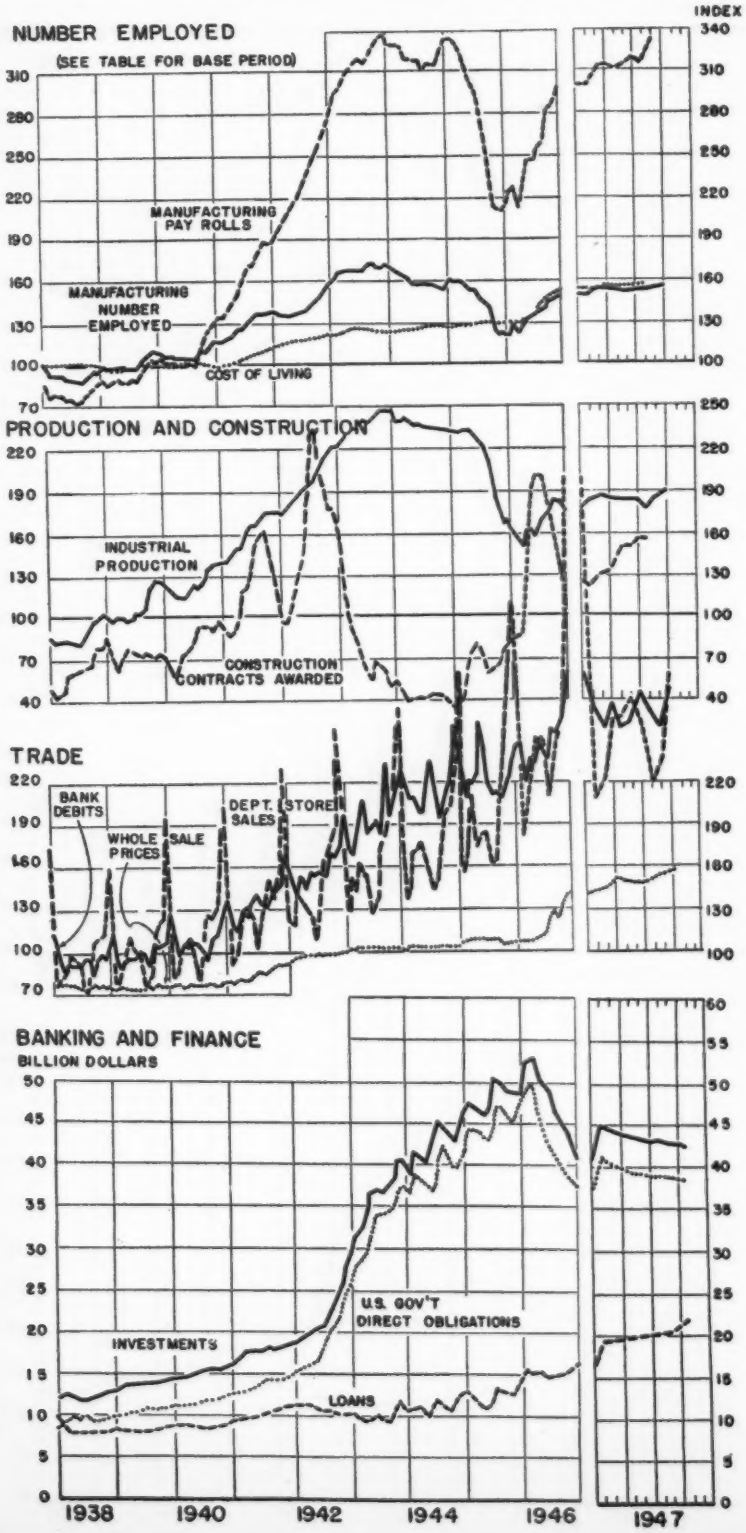
Construction Activity as measured by the value of contracts awarded was up 14 per cent in September from August and was 6 per cent below September, 1946, and for the first 9 months of the year was 22 per cent below the same period last year. The September increase from August was due primarily to increases in non-residential and public works and utilities construction.

Residential Contracts dropped 21 per cent in September from August and was 43 per cent below September of last

(Continued on Page 3)

Entered as second class matter March 3, 1926, at the Post Office at Columbus, Ohio, under the Act of August 24, 1912. Acceptance for mailing at the special rate of postage provided for in section 1103, Act of October 3, 1917, authorized March 3, 1926.

Business in the United States



IN THE UNITED STATES

(Continued from Page 1)

above the same period last year.

Construction Activity as measured by the value of contracts awarded dropped 21 per cent in September from August but was 5 per cent above September, 1946. For the first 9 months of the year, however, construction activity was 6 per cent below the same period last year. Residential construction was down 13 per cent in September from August, 9 per cent from September, 1946, and for the first 9 months of the year was 8 per cent below the same period last year. Non-residential construction was down 18 per cent in September from August, but was 41 per cent above September, 1946. For the first 9 months of the year, however, it was 11 per cent below last year.

Retail Trade reflected the upward trend in business activity. Sales of independent retailers were up 14 per cent in September from August, 13 per cent from September, 1946, and 14 per cent for the first 9 months of the year. Department store sales were up 26 per cent in September from August, 7 per cent from September, 1946, and 7 per cent for the first 9 months of the year.

Prices of Wholesale Commodities rose 2 per cent in September from August and were 27 per cent above September, 1946, and for the first 9 months of the year were 29 per cent above last year. Department store prices were up 1 per cent in September from August, 8 per cent from September, 1946, and 8 per cent for the first 9 months of the year.

FOOTNOTES FOR BULLETIN TABLES

[p]Preliminary; [x]Less than 0.5%; [7]More than 1,000% increase; †Change in number of failures; [a]Figures in parentheses show number of firms reporting this month; [b]Data not available; [c]Only percentage change available; [d]Adjusted for seasonal changes; [e]Bureau of Business Research estimate; [f]Adjusted for number of working days; [g]Not including government financed projects; [h]Includes additions, alterations and repairs along with residential and nonresidential; [w]Weighted.

Primary Sources:

Computed from original data collected by the Bureau of Business Research from: [1]Local Power and Light Co's.; [2]County Clerk of Courts; [3]Ohio Cleaners and Dyers.

Computed by the Bureau of Business Research from data collected in cooperation with: [4]Bureau of the Census, U. S. Dept. of Commerce.

Computed by the Bureau of Business Research from special tabulations supplied by: [5]Bureau of Labor Statistics, U. S. Dept. of Labor; [6]Federal Power Commission; [7]Life Insurance Sales Research Bureau; and from data of: [8]Board of Governors of the Federal Reserve System; [9]F. W. Dodge Corporation.

Other Data Sources: [10]*New York Times*; [11]Association of American Railroads; [12]Dun & Bradstreet, Inc.; [13]American Iron & Steel Institute; [14]*Steel* Magazine; [15]Federal Reserve Board; [16]U. S. Dept. of Agriculture; [17]*Commercial & Financial Chronicle*; [18]U. S. Bureau of Labor Statistics; [19]Wards Reports; [20]Federal Power Commission; [21]Bituminous Coal Division, U. S. Dept. of Interior; [22]U. S. Steel Corporation; [23]F. W. Dodge Corporation; [24]*Chain Store Age*; [25]U. S. Dept. of Commerce; [26]Fairchild Publications; [27]Standard and Poor's Corp.; [28]Dept. of Rural Economics, O. S. U.; [29]Bureau of Labor Statistics; [30]R. L. Polk & Co.; [31]War Production Board; [32]Ohio Bureau of Unemployment Compensation.

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Subscription rates: $3.00 for 1 year; $5.50 for 2 years; $4.50 for 3 years.

U. S. Reference Data

ITEM — Unit or Index — Base Period	Sept. 1947	Aug. 1947	Change from Last Month: Sept. 1947 from Aug. 1947	Change from Last Year: Sept. 1947 from Sept. 1946	Change from Last Year: 9 months 1947 from 1946
General Business					
Totals, or Average Indexes for 4 Weeks Ended on Indicated Dates			%	%	%
Bus. Activ.[10] 10/18/47 *Comp. Norm.*	142	142	+ x	+ 7	+ 12
Fght. Car Loadings[11] 10/18/47 *Thous.*	3,[illegible]92	3,588	+ 6	+ 4	+ 9
Com. Failures[12] 10/18/47 ..*Number*	295	272	+ 8	+184	+229
Calendar Months					
• Bank Dbts. (Excl. N.Y.C.)[6,f] *1935-39*	287	258	+ 11	+ 11	+ 13
Seasonally Adjusted, at Ann. Rates:					
Tot. Pers. Income Pay.[25,d] *Bl. Dol.*	210	195	+ 8	+ 18	+ 12
Salaries and Wages Inc.[25,d] "	124	123	+ 1	+ 10	+ 12
Non-Agricultural Inc.[25,d] .. "	188	173	+ 8	+ 16	+ 11
Agr. Inc. (Cash f. Mktgs.)[16] *1935-39*	b	377	b	b	b
Life Ins. Sales[7] ..... "	179	189	— 5	— 7	— 7
Steel Ind. Oper. Rate[13] ..% Capacity	91	90	+ x	+ 4	+ 34
Securities Issued[17]—New...*Mil. Dol.*	619	342	+ 81	+168	+ 87
Securities Issued[17]—Refunding " "	165	191	— 14	— 18	— 51
Employment and Pay Rolls[18]					
• No. Employed—Mfg. *1939*	156	154	+ 1	+ 4	+ 10
No. Empl'd—Trade—Retail.. ... "	113	109	+ 3	+ 3	+ 4
No. Empl'd—Trade—Whl'sale "	114	112	+ 1	+ 4	+ 4
• Pay Rolls—Manufact..... "	b	332	b	b	b
Production					
• Industrial Prod.[15] *1935-39*	189	185	+ 2	+ 3	+ 11
Elec. Power Prod.[20] ..*Mil. of K.W.H.*	21,481	21,744	— 1	+ 14	+ 16
Bitum. Coal Prod.[21] ....*Thous. Tons*	52,350	51,020	+ 3	+ 1	+ 15
Steel Prod.[13] *Av. Weekly Tons Thous.*	1,583	1,5[illegible]6	+ x	+ 3	+ 33
Pig Iron Prod.[14] .....*Thous. Tons*	4,801	4,917	— 2	+ 2	+ 36
Mach. Tool Shipments[21] ....*Mil. Dol.*	23	19	+ 22	— 12	— 10
Construction (Value of Contracts Awarded—37 Eastern States)					
• Total (Index)[15] 3 Mo. Mov. Av. *1923-25*					
Total[23] .....*Thous. of Dol.*	649,996	823,216	— 21	+ 5	— 6
Residential[23] ..... " "	268,543	308,937	— 13	— 9	— 8
Nonresidential[23] ..... " "	239,915	290,807	— 18	+ 41	— 11
Public Works & Util.[23] " "	141,538	223,472	— 37	— 10	+ 8
Distribution					
Retail Sales[25] ..... %	c	c	+ 14	+ 13	+ 14
• Dept. Store Sales[18] *1935-39*	297	235	+ 26	+ 7	+ 7
Prices					
• Wholesale Commod. Prices[19] *1926*	157	154	+ 2	+ 27	+ 29
• Cost of Living[5] *1935-39*	b	160	b	b	b
Retail Food Prices[18] *1935-39*	b	197	b	b	b
Dept. Store Prices[26] .....*Jan. 1931*	125	124	+ 1	+ 8	+ 8

Banking and Finance

ITEM — Unit	Oct. 15 1947	Oct. 16 1946	Oct. 17 1945	Change from Last Month Amt.	Change from Last Year Per Ct.
Federal Reserve Banks[15]				$	%
U.S. Gov. Securities ....*Mil. Dol.*	22,218	23,418	22,901	+ 462	— 5
Member Bank Borrowings " "	146	254	317	+ 16	— 43
Member Banks—101 Cities[15]					
• Total Loans ..... " "	22,258	18,221	12,321	+ 875	+ 22
Bus. & Agr. Loans and Open Market Paper " "	13,436	10,591	6,251	+ 578	+ 27
Brok. & "Other Secur." Loans ..... " "	2,049	2,711	3,432	+ 150	— 24
Real Estate Loans.... " "	3,279	2,282	1,063	+ 71	+ 44
Other Loans ..... " "	3,270	2,498	1,499	+ 46	+ 31
• Total Investments ..... " "	42,362	48,512	48,754	— 969	— 13
• U.S. Gov. Obligations .. " "	38,103	44,513	45,471	— 919	— 14
Demand Deposits ..... " "	46,927	45,757	39,362	— 571	+ 3
Time Deposits ..... " "	14,539	13,838	9,207	+ 29	+ 5
Money[15]					
Money in Circulation.... " "	28,656	28,597	27,952	+ 23	+ x
Monetary Gold Stock.... " "	22,153	20,304	20,039	+ 218	+ 9
Security Markets[27]					
Stock Prices—354 Ind. *Index '35-39*	133	131	136	+ 3	+ 1
" " — 20 Rails " "	105	115	147	+ 1	— 9
" " — 28 Util. " "	101	110	115	— 1	+ 8
Bond Yld-Corp. A1+ (high gr.) %	2.690	2.703	2.671	+ 0.118	— x

• Indicates Series Charted (page 2). For Sources and Footnotes, see Page 2.

Reference Data—Ohio →

ITEM — Unit or Index — Base Period	Sept. 1947	Aug. 1947	Change from Last Month: Sept. 1947 from Aug. 1947	Change from Last Year: Sept. 1947 from Sept. 1946	Change from Last Year: 9 months 1947 from 1946
General Business					
			%	%	%
• Bank Debits[9,f] (16 cities) *1935-39*	294	272	+ 8	+ 10	+ 15
Commercial Failures[12] .....*Number*	12	11	+ 9	+140	+225
" Liabilities[12] *Thous. Dol.*	413	1,363	— 70	+265	+534
Life Ins. Sales[2] *1935-39*	179	195	— 8	— 8	— 9
Agr. Income[20]—total *1924-28*	291	284	+ 2	+ 70	+ 21
Meat Animals ..... " "	411	329	+ 25	+523	+ 41
Dairy Products ..... " "	270	274	— 1	— 13	+ 4
Grains ..... " "	195	331	— 41	+ 28	+ 13
Poultry and Eggs..... " "	216	203	+ 6	+ 1	+ 12
• Electric Power Produc.[9,f]...*1935-39*	238	223	+ 7	+ 20	+ 27
Bit. Coal Prod.[21] 4 wks. .*Thous Tons*	3,028	2,926	+ 3	+ 6	+ 18
Construction (Value of Contracts Awarded)[9,f]					
• Total (Index).....*1935-39*	294	259	+ 14	— 6	— 22
Residential ..... "	311	391	— 21	— 43	— 16
Nonresidential ..... "	308	219	+ 40	+138	— 23
Public Works & Utilities..... "	257	140	+ 84	+ 3	— 21
Distribution					
Retail Sales—Independent Stores[4] (2616)[a] .....*(See p. 3)*	e	e	+ 5	+ 11	+ 13
• Dept. Store Sales[4] (57)[a] ..*1935-39*	295	250	+ 18	+ 10	+ 6
Dyers' & Cleaners' Sales[3] (43)[a] *1939*	242	199	+ 21	+ 5	+ 2
Passgr. Car Reg. New[2] (44 cos.) *No.*	12,998	12,531	+ 4	+ 32	b
Truck Reg. New[2] (42 cos.) ..... "	2,630	2,816	— 7	+ 29	b
Used Car Reg.[2] (39 cos.) ..... "	39,306	37,442	+ 5	+ 37	b
Liv. Costs (6 Cit.)[20] (Quar.) *Jan.'39*	b	155	b	b	b
Placements, Unemployment and Unemployment Compensation[22]					
Placements by O.E.S.....*Number*	36,214	26,252	+ 38	+ 15	+ 4
Reg. for Work with O.E.S. "	95,169	111,212	— 14	— 23	— 30
Total Benefit Payments..*Thous. Dol.*	1,600	1,542	+ 4	— 12	— 43
Av. Revg. Benefits—Wkly. *Number*	21,845	21,930	— x	— 15	— 65
Wkly. Benefits Per Recipient...*Dol.*	17.41	17.23	+ 1	— 4	— 5
Unemployment Comp. Fund. *Mil. Dol.*	518	520	— x	+ 9	—

Employment, Pay Rolls and Earnings[5]

ITEM — Unit or Index — Base Period	Aug. 1947	July 1947	Aug. 1947 from July 1947	Aug. 1947 from Aug. 1946	8 mos. 1947 from 1946
Number Employed:			%	%	%
• Total[w] (b)[a] *1935-39*	b	139	b	b	b
• Manufacturing[w] (2193)[a] .. "	136	134	+ 1	+ 4	+ 13
• Trade & Pub. Util.[w] (4090)[a] "	120	121	— 1	+ 1	+ 3
Construction[c] (b)[a] ..... "	b	172	b	b	b
Pay Rolls—Mfg.[w] (2193)[a] .... "	297	289	+ 3	+ 17	+ 29
Man-Hours—Mfg.[w] (2170)[a] . "	156	153	+ 2	+ 5	+ 14
Wage Earner Mfg.[w] (2170)[a] . "					
Av. Weekly Earnings.....*Dol.*	54.78	53.98	+ 1	+ 13	+ 14
Av. Hours Worked.....*Number*	39.6	39.3	+ 1	+ 2	+ 1
Av. Hourly Earnings.....*Dol.*	1.38	1.37	+ 1	+ 10	+ 13

Banking (4th Federal Reserve District)[15]

ITEM — Unit	Oct. 15 1947	Oct. 16 1946	Oct. 17 1945	Change from Last Month Amt.	Change from Last Year Per Ct.
Cleveland Federal Reserve Bank				$	%
U.S. Gov. Securities .*Thous.Dol.*	2,049,113	2,173,968	2,159,982	—148,268	— 6
Member Bank Borrowings " "	16,417	19,939	20,595	— 2,005	— 15
Member Banks—4th District					
• Total Loans .....*Mil.Dol.*	1,379	1,183	910	+ 17	+ 17
Bus. & Agr. Loans and Open Market Paper " "	803	602	378	+ 16	+ 33
Brok. & "Other Secur." Loans ..... " "	141	187	252	+ 3	— 25
Real Estate Loans.... " "	216	206	150	+ 5	+ 5
Other Loans ..... " "	218	188	130	— 7	+ 16
• Total Investments ..... " "	2,884	3,601	3,963	— 46	— 20
• U.S. Gov. Obligations .. " "	2,564	3,319	3,715	— 47	— 23
Demand Deposits ..... " "	2,919	3,072	3,096	— 26	— 5
Time Deposits ..... " "	1,321	1,354	1,221	+ 1	— 2

• Indicates Series Charted (page 3). For Sources and Footnotes, see Page 2.

Business in Ohio

IN OHIO

(Continued from Page 1)

year and for the first 9 months of the year was 16 per cent below the same period last year.

NEW AUTOMOBILE REGISTRATIONS[2]

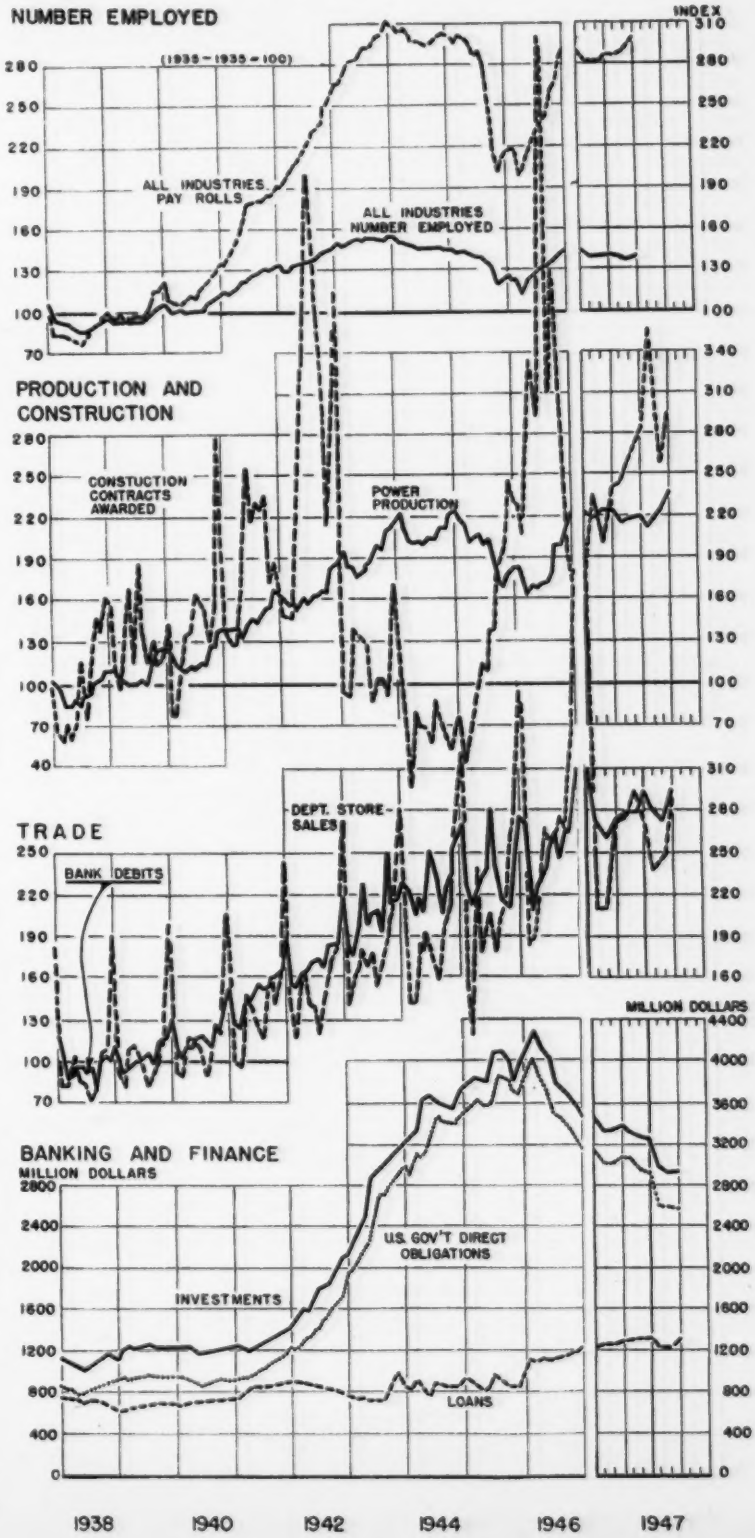
Make of Car	7 MAJOR OHIO COUNTIES[(a)] Sept. 1947	Aug. 1947	Change: Sept. 1947 from Aug. 1947	Change: Sept. 1947 from Sept. 1946	Percentage of Total 9 mos. 1947
	No.	No.	%	%	%
Ford	1897	1381	+ 37	+ 82	15
Chevrolet	1820	2161	— 16	+ 9	22
Plymouth	1044	973	+ 7	+ 30	10
Buick	999	981	+ 2	+ 29	9
Dodge	758	786	— 4	+ 65	7
Pontiac	628	648	— 3	— 8	7
Oldsmobile	626	546	+ 15	+ 29	6
Mercury	332	154	+116	+ 21	3
Chrysler	318	328	— 3	+ 57	3
Nash	310	331	— 6	+ 28	3
Hudson	271	249	+ 9	— 20	3
De Soto	207	252	— 18	+ 2	2
Studebaker	192	169	+ 14	— 12	2
Kaiser	159	148	+ 7	+ 7	1
Cadillac	158	186	— 16	+ 20	2
Packard	148	129	+ 15	— 6	1
Frazer	136	138	— 1	+ 7	1
Willys	131	117	+ 12	+ 26	1
Lincoln	60	23	+161	+ 50	1
All Others	57	43	+ 33	+200	1
Total	10249	9743	+ 5	+ 31	100

(a) Does not include Mahoning County.

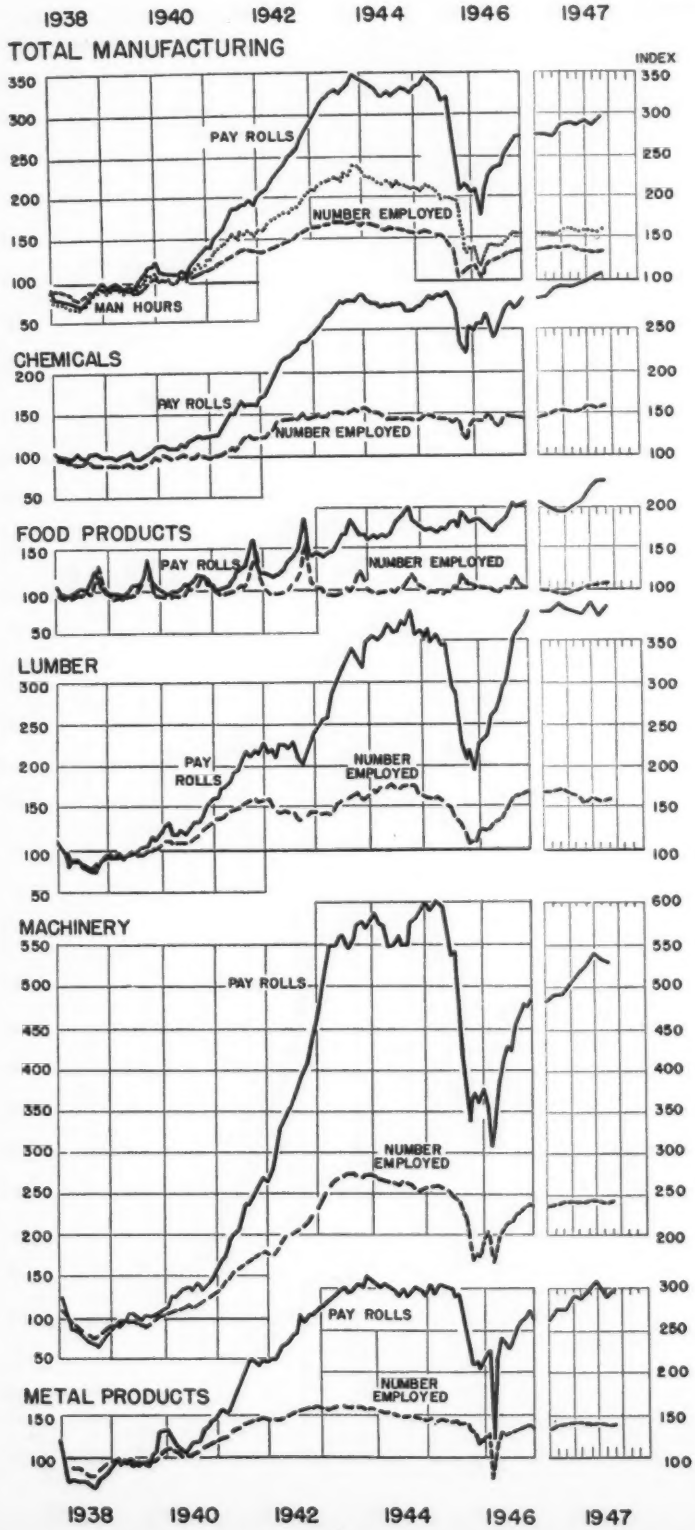
RETAIL SALES — INDEPENDENT STORES IN OHIO[4]

Kind of Business	Stores	Sales Sept. 1947	Change in Sales from: Last Mo. Sept. 1947 from Aug. 1947	Last Year: Sept. 1947 from Sept. 1946	Last Year: 9 mos. 1947 from 9 mos. 1946
	Number	$000	%	%	%
FOOD	411	5,275	— 5	+ 7	+ 10
Groceries (no meats)	38	367	— 10	— 9	+ 3
Groceries (with meats)	175	1,654	— 5	+ 15	+ 13
APPAREL	232	7,708	+ 31	+ 4	— 8
Men's Clothing	77	1,448	+ 31	+ 6	— 10
Family Clothing	27	1,832	+ 33	— 2	— 3
Women's Clothing	45	3,151	+ 36	+ 9	— 6
Shoe Stores	51	707	+ 20	+ 18	+ 5
AUTOMOTIVE	247	16,543	+ 6	+ 29	+ 30
Motor Vehicles	220	16,081	+ 6	+ 29	+ 30
FURNITURE	206	5,443	+ 5	+ 15	+ 15
Furniture	142	4,417	+ 8	+ 14	+ 8
Household Appl. & Radios	25	240	+ *	+ 31	+ 54
LUMBER & BUILDING	198	8,832	+ 10	+ 28	+ 12
Lumber & Bldg. Material	158	8,195	+ 11	+ 32	+ 14
Heating and Plumbing	8	248	+ 37	+ 25	— 8
EATING AND DRINKING	386	3,395	+ 1	— 3	— 3
OTHERS					
Country General	46	301	— 4	+ 18	+ 11
Department Stores	57	8,518	+ 17	+ 11	+ 6
Drug Stores	177	1,392	— 2	+ 2	+ 3
Florists	12	63	+ 15	+ 10	— *
Filling Stations	49	450	— 14	+ 3	+ 14
Hardware	137	2,254	+ 2	+ 39	+ 23
Jewelry	88	917	+ 2	— 3	— 8
All lines:	2,616				
Weighted (Based on 1939 Census Sales)			+ 5	+ 11	+ 13
Adjusted for number of working days			+ 9	+ 7	+ 13

For Footnotes and Sources, see Page 2.



Number Employed, Pay Rolls, nd



Manufacturing Employment was up 1 per cent in August from July, 4 per cent from August, 1946, and for the first 8 months of the year was 13 per cent above the same period last year. Nine of the 10 major manufacturing groups reported employment increases in August from July and 8 of the groups reported increases from August, 1946, for the first 8 months of the year, as compared with the same period last year. All of the major manufacturing groups reported employment increases from a fractional increase in the food group to 32 per cent in the vehicles group.

Trade and Public Utilities Employment dropped 1 per cent in August from July but gained 1 per cent from August, 1946, and for the first 8 months of the year was 3 per cent above last year.

Pay Rolls in manufacturing industries were up 3 per cent in August from July, 17 per cent from August, 1946, and 29 per cent for the first 8 months of the year, as

INDUSTRIAL GROUP	Number Employed[a]					
	Index 1935–39=100		Change			Index 1935–39=100
	Aug. 1947	July 1947	Aug. 1947 from July 1947	Aug. 1947 from Aug. 1946	8 months 1947 from 1946	July 1947
			%	%	%	
TOTAL ([b])[a]	[b]	139	[b]	[b]	[b]	295
All Manufacturing (2193)	136	134	+ 1	+ 4	+ 13	289
Chemicals (152)	152	151	+ [x]	+ 3	+ 6	310
Food Products (224)	107	105	+ 2	+ 4	+ [x]	231
Bakery (60)	100	102	— 2	+ 3	+ 2	209
Miscellaneous (164)	105	102	+ 3	+ 4	+ [x]	228
Lumber Products (105)	157	152	+ 4	+ [x]	+ 18	379
Furniture (49)	145	143	+ 2	+ 2	+ 16	404
Miscellaneous (56)	126	117	+ 8	— 2	+ 22	213
Machinery (406)	240	239	+ 1	+ 6	+ 19	530
Elec. Machinery, Apparatus and Supplies (108)	295	303	— 3	+ 10	+ 33	664
Machine Tools (34)	157	138	+ 14	— 12	— 9	269
Material Handling and Power Machinery (11)	171	162	+ 5	+ 34	+ 33	357
Spec. Mach. and Appl. (253)	144	142	+ 1	+ 6	+ 15	328
Metal Products (515)	139	139	— [x]	+ 4	+ 17	290
Foundy Products and Drop Forgings (24)	150	151	— 1	— 6	+ 9	316
Pipes, Pumps, Valves and Plumbers' Supplies (16)	98	105	— 7	— 22	+ 8	225
Screw Machine Products and Hardware (34)	147	146	+ 1	+ 29	+ 12	300
Sheet Metal Work (77)	149	148	+ [x]	— 1	+ 19	356
Steel Works and Rolling Mills (68)	125	124	+ 1	+ 4	+ 16	248
Stoves and Furnaces (33)	127	137	— 7	— 3	+ 30	288
Miscellaneous (164)	175	177	— 1	+ 7	+ 14	358
Paper and Printing (255)	129	128	+ 1	+ 4	+ 6	248
Paper, inc. Stationery (19)	123	123	+ [x]	+ 3	+ 5	309
Print. and Publish. (139)	135	135	+ [x]	+ 8	+ 5	240
Miscellaneous (97)	127	125	+ 1	— 1	+ 2	383
Rubber Products (44)	153	149	+ 3	— 2	+ 3	279
Tires and Tubes (15)	152	148	+ 2	— 2	+ 2	276
Miscellaneous (29)	162	155	+ 5	— 3	+ 3	301
Stone, Clay and Glass Products (147)	127	122	+ 4	+ [x]	+ 7	232
Brick and Tile (48)	136	133	+ 2	+ 8	+ 19	239
Glass (18)	117	114	+ 3	— 1	+ 6	236
Vitreous and Semi-Vitreous China and Pottery (30)	136	122	+ 12	— 1	+ 5	178
Miscellaneous (51)	93	91	+ 2	— 2	+ 4	178
Textiles (140)	84	83	+ 1	— 4	+ 2	191
Men's Clothing (51)	89	88	+ 2	+ 5	+ 5	202
Miscellaneous (89)	74	74	+ [x]	— 10	— 2	189
Vehic'es (85)	141	140	+ 1	+ 7	+ 12	351
Autos and Parts (54)	122	122	— [x]	+ 5	+ 10	311
Cars, Electric and Street Railway (5)	201	179	+ 12	+ 25	+ 16	240
Miscellaneous (26)	360	345	+ 4	+ 14	+ 24	908
Miscellaneous Manufac. (120)	121	121	— [x]	— 2	+ 5	241
Tot. Trade & Pub. Util. (4090)	120	121	— 1	+ 1	+ 5	294
Service (448)	106	107	— 1	— 8	— 4	140
Trade (Ret. & Whlsl.) (3281)	117	119	— 2	+ 3	+ 5	294
Transp. & Pub. Util. (361)	138	138	— [x]	+ 7	+ [illegible]	245
Construction[g] ([b])	[b]	172	[b]	[b]	[b]	304
Mines and Quarries (127)	[c]	[c]	+ 1	[b]	[b]	[c]

Indexes of Number employed and of pay rolls are based on the employment of 777,001 persons in 5,610 establishments. Figures in [illegible] show 823,822 In most cases fewer establishments report man-hours.
For sources and footnotes, see page 2.

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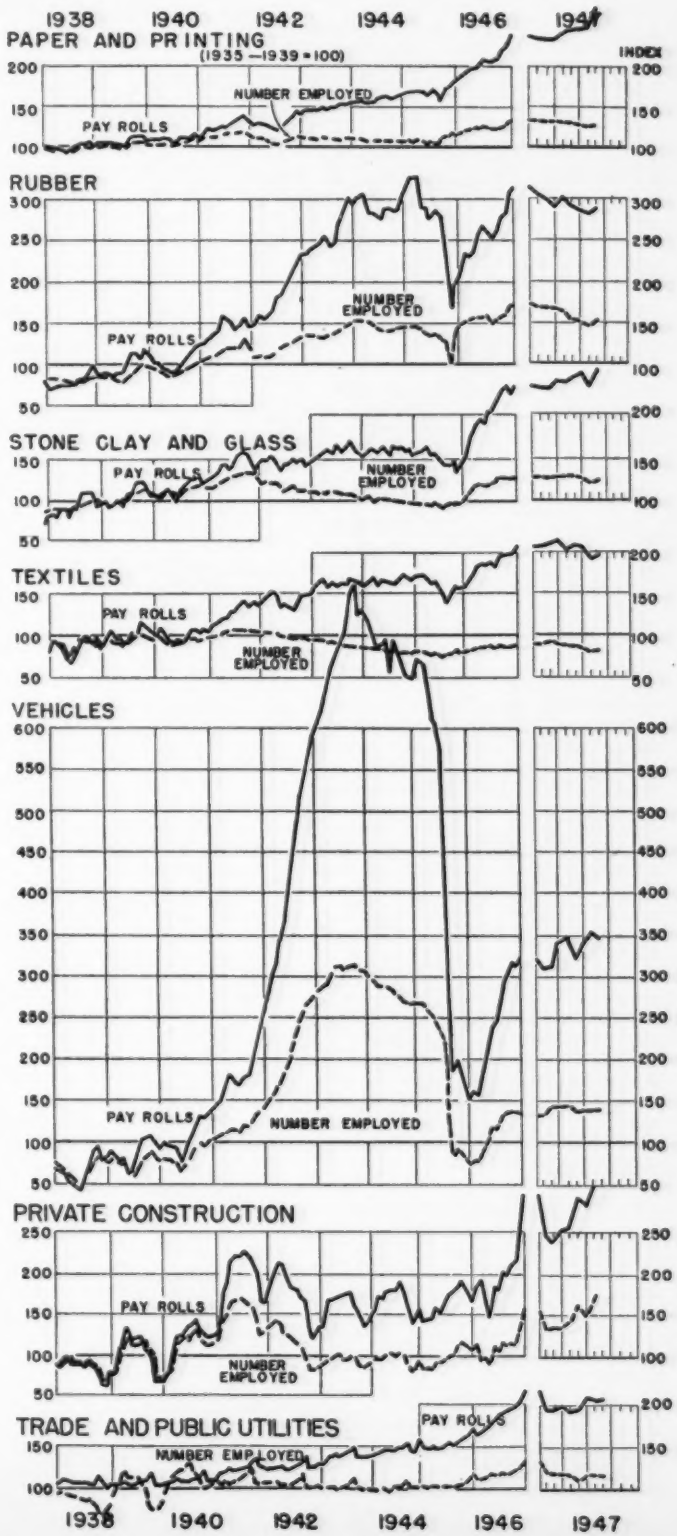
compared with the same period last year. All of the major manufacturing industry groups reported pay roll increases in August from July, except the vehicles group, and all groups reported increases from August, 1946. For the first 8 months of the year as compared with the same period last year all groups reported pay roll increases ranging from 12 per cent in the textile to 51 per cent in the vehicles group.

Man-Hours Worked dropped fractionally in August and July but were 1 per cent above August, 1946, and for the first 8 months of the year were 4 per cent above the same period last year. Eight of the 10 major groups reported increases in man-hours worked in August from July and the 6 groups reported increases from August, 1946. For the first 8 months of the year all but 2 of the major groups —food products and textile products—reported increases in man-hours worked.

	Pay Rolls[5]					Man-Hours[5]				
	Index 1935-39=100		Change			Index 1935-39=100		Change		
		July 1947	Aug. 1947 from July 1947	Aug. 1947 from Aug. 1946	8 months 1947 from 1946	Aug. 1947	July 1947	Aug. 1947 from July 1947	Aug. 1947 from Aug. 1946	8 months 1947 from 1946
			%	%	%			%	%	%
		295								
		289	+ 3	+ 17	+ 29	156	153	+ 2	+ 5	+ 14
		310	+ 2	+ 14	+ 17	159	159	— x	+ 1	+ 4
		231	+ x	+ 19	+ 17	108	107	+ 1	+ 2	— 2
		209	+ 1	+ 16	+ 15	107	109	— 2	+ 2	+ 2
		228	+ x	+ 19	+ 17	99	97	+ 2	+ 1	— 3
		879	+ 3	+ 18	+ 41	173	167	+ 4	— 2	+ 17
		404	+ 1	+ 26	+ 45	163	162	+ 1	+ 3	+ 17
		213	+ 8	+ 9	+ 38	123	113	+ 9	— 7	+ 17
		530	+ x	+ 16	+ 33	253	252	+ x	+ 5	+ 16
		664	— 4	+ 20	+ 51	318	332	— 4	+ 7	+ 33
		269	+ 18	— 6	— 4	164	144	+ 14	— 12	— 10
		357	+ 3	+ 57	+ 68	176	169	+ 4	+ 56	+ 53
		326	+ 2	+ 17	+ 29	136	133	+ 2	+ 5	+ 10
		290	+ 3	+ 17	+ 32	155	151	+ 3	+ 4	+ 19
		316	— 4	+ 14	+ 32	158	165	— 4	+ 3	+ 16
		225	— 5	— 11	+ 24	102	107	— 5	— 23	+ 11
		300	— 2	+ 44	+ 48	151	156	— 3	+ 24	+ 28
		355	— x	+ 10	+ 36	168	167	+ 1	— 3	+ 19
		248	+ 10	+ 20	+ 31	142	131	+ 9	+ 6	+ 20
		288	— 7	+ 5	+ 46	130	139	— 6	— 7	+ 26
		358	— 2	+ 15	+ 29	192	196	— 2	+ 4	+ 17
		248	+ 10	+ 30	+ 23	132	133	— 1	+ 1	+ 3
		309	— 4	+ 12	+ 18	146	149	— 2	+ 1	+ 3
		240	+ 19	+ 49	+ 30	135	135	— x	+ 5	+ 6
		283	— 1	+ 10	+ 14	129	130	— x	— 5	— 1
		279	+ 3	+ 10	+ 16	184	179	+ 3	— x	+ 2
		276	+ 2	+ 11	+ 15	192	189	+ 2	+ x	+ 1
		301	+ 10	+ 8	+ 24	153	139	+ 10	— 2	+ 8
		232	+ 10	+ 17	+ 25	118	108	+ 9	— x	+ 7
		289	+ 2	+ 23	+ 39	144	142	+ 2	+ 7	+ 19
		236	+ 8	+ 19	+ 24	109	101	+ 7	+ 1	+ 7
		178	+ 23	+ 14	+ 23	97	79	+ 23	— 1	+ 2
		178	+ 6	+ 10	+ 18	93	89	+ 4	— 8	+ 3
		191	+ 3	+ x	+ 12	95	92	+ 2	— 8	— x
		202	+ 4	+ 10	+ 23	111	107	+ 3	+ 1	+ 8
		189	+ 3	— 6	+ 5	85	84	+ 2	— 13	— 5
		351	— 1	+ 19	+ 51	163	162	+ x	+ 7	+ 35
		311	— 3	+ 14	+ 53	140	142	— 2	+ 3	+ 38
		240	+ 13	+ 53	+ 65	217	187	+ 16	+ 33	+ 33
		905	+ 4	+ 34	+ 44	378	368	+ 3	+ 21	+ 28
		241	+ x	+ 10	+ 17	176	175	+ x	+ x	+ 5
		294	+ x	+ 6	+ 11	126	126	+ x	+ 2	+ 3
		140	— 2	— 17	— 1	114	118	— 3	— 10	— 2
		204	— 1	+ 10	+ 13	122	121	— 1	+ 6	+ 5
		245	+ 3	+ 16	+ 15	157	156	+ 1	+ 7	+ 5
		306								
			+ 2					+ 1		

the em 823,822 persons in 6,410 establishments; indexes of man-hours, on the Figures in show number of establishments reporting employment and payroll



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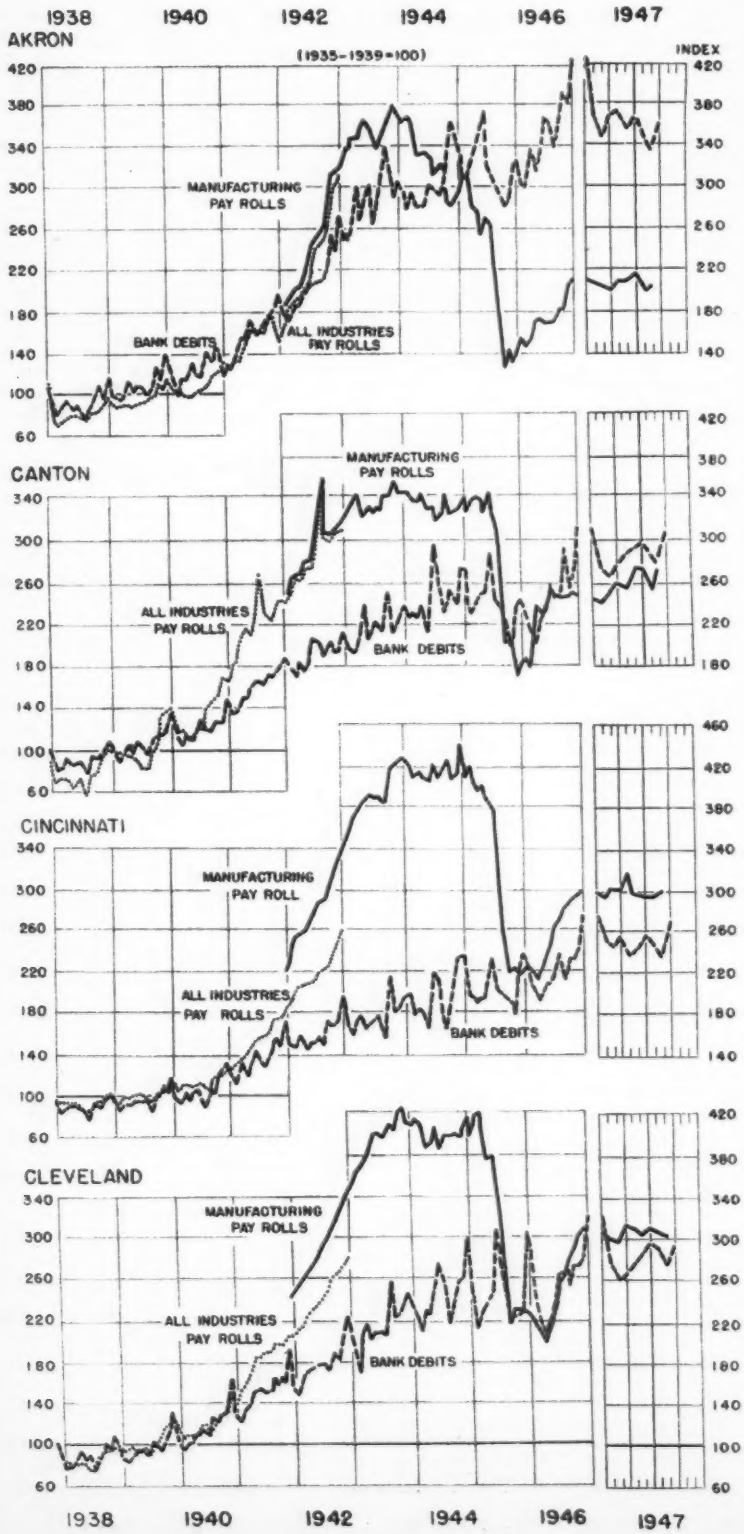


AKRON

September sales of 104 independent retail stores increased 9 per cent from August, 18 per cent from September, 1946, and 8 per cent for the first 9 months of 1947 as compared with the same period last year. Bank debits showed an increase of 8 per cent over August and a decrease of 3 per cent from September, 1946. Industrial power consumption went up 7 per cent over August. The total value of building permits issued in September went up 34 per cent from August and 45 per cent from September, 1946, but fell 2 per cent for the first 9 months of 1947 from the same period in 1946.

Employment in manufacturing industries increased 3 per cent in August from July, and manufacturing pay rolls advanced 2 per cent for this same period.

CANTON

Retail sales of 29 independent retail stores went up 5 per cent from August, 13 per cent over September, 1946, and 14 per cent for the first 9 months of 1947 as compared with the same period last year. September bank debits climbed 10 per cent from August, and 5 per cent from September, 1946. The total value of building permits issued decreased 38 per cent from August, but increased 56 per cent over September, 1946, while the first 9 months of 1947 show a drop of 8 per cent from the same period of 1946.

August employment in manufacturing industries fell 2 per cent from July, while manufacturing pay rolls increased 9 per cent over July.

CINCINNATI

Sales of 302 independent retailers climbed 16 per cent in September from August, 12 per cent from September, 1946, and 13 per cent for the first 9 months of 1947 as compared with the same period last year. Bank debits showed an increase of 13 per cent over August and 14 per cent over September, 1946. Total value of building permits issued fell 35 per cent in September over August, but showed a 22 per cent increase over September of last year. The steel industry operating rate in September was 91 per cent of capacity, which represents a decrease of 2 per cent from August.

August manufacturing employment increased fractionally from July. Manufacturing pay rolls went up 2 per cent in August from July.

CLEVELAND

Sales of 463 independent retailers advanced 12 per cent in September from August, 14 per cent from September, 1946, and 13 per cent for the first 9 months of 1947 as compared with the same period last year. Bank debits rose 8 per cent over August and 10 per cent over September, 1946. Registrations of new passenger cars showed a 10 per cent increase from August, 1947. There was a 14 per cent increase in total value of building permits issued from August. Steel industry operating rate for September was 92 per cent of capacity, which was an increase of 1 per cent from August.

ITEM — Unit or Index — Base Period	Sept. 1947	Aug. 1947	Change from Last Month: Sept. 1947 from Aug. 1947	Change from Last Year: Sept. 1947 from Sept. 1946	Change from Last Year: 9 months 1947 from 1946
GENERAL BUSINESS INDICATORS					
Akron			%	%	%
Ret. Sales–Independent Stores[4] (104)[a] %	e	e	+ 9	+ 13	+ 8
Auto Registrations:[2] New Cars *Number*	970	965	+ 1	+ 18	+ 92
" " New Trucks "	165	130	+ 27	+ 19	+ 36
Cost of Living[20] ..... *Jan. 1939*	b	156	b	b	b
•Bank Debits Index[5, f] *1935-39*	361	334	+ 8	— 3	+ 6
Commercial Failures[12] ..... *Number*	1	1	0†	+ 1†	+ 5†
" Liabilities[12] ..... *Thous. Dol.*	10	4	+150	+ y	+ y
Indust. Power Consumption[1, f] ... *1935-39*	375	349	+ 7	+ 11	+ 22
Val. Bldg. Permits[5, f]—Total[b] ... "	848	634	+ 34	+ 45	— 2
Residential ..... "	1,204	961	+ 25	+ 44	— 11
Nonresidential ..... "	512	441	+ 16	— 6	— 9
Canton					
Ret. Sales–Independent Stores[4] (29)[a] %	e	e	+ 5	+ 13	+ 14
Auto Registrations:[2] New Cars *Number*	639	617	+ 4	+ 22	+ 88
" " New Trucks "	124	98	+ 27	+ 10	+ 37
•Bank Debits Index[5, f] *1935-39*	309	280	+ 10	+ 5	+ 19
Commercial Failures[12] ..... *Number*	0	0	0†	— 1†	— 1†
" Liabilities[12] ..... *Thous. Dol.*	0	0	0	—100	— 36
Val. Bldg. Permits[5, f]—Total[b] ... *1935-39*	526	852	— 38	+ 56	— 8
Residential ..... "	734	821	— 11	+ 54	+ 4
Nonresidential ..... "	384	1,501	— 74	+109	— 23
Cincinnati					
Ret. Sales–Independent Stores[4] (302)[a] %	e	e	+ 16	+ 12	+ 13
Auto Registrations:[2] New Cars *Number*	1,658	1,752	— 5	+ 15	+ 91
" " New Trucks "	420	425	— 1	+ 32	+ 61
Cost of Living[20] ..... *Jan. 1939*	b	155	b	b	b
Retail Food Price Index[16] *1935-39*	b	b	b	b	b
•Bank Debits Index[5, f] ..... "	265	234	+ 13	+ 14	+ 16
Commercial Failures[12] ..... *Number*	3	0	+ 3†	+ 2†	+ 2†
" Liabilities[12] ..... *Thous. Dol.*	7	0	+ y	+ 75	+ 8
Val. Bldg. Permits[5, f]—Total[b] ... *1935-39*	190	294	— 35	+ 22	+ 35
Residential ..... "	118	99	+ 19	+ 6	— 6
Nonresidential ..... "	124	556	— 78	+232	+ 87
Steel Ind. Oper. Rate[13] *4 Wks. Av. % Cap.*	91	92	— 2	+ 6	+ 13
Cleveland					
Ret. Sales–Independent Stores[4] (463)[a] %	e	e	+ 12	+ 14	+ 13
Auto Registrations:[2] New Cars *Number*	3,678	3,349	+ 10	+ 33	+ 95
" " New Trucks "	644	630	+ 2	+ 80	+ 78
Cost of Living[20] ..... *Jan. 1939*	b	154	b	b	b
Retail Food Price Index[16] *1935-39*	b	b	b	b	b
•Bank Debits Index[5, f] ..... "	298	275	+ 8	+ 10	+ 14
Commercial Failures[12] ..... *Number*	1	3	— 2†	— 1†	+ 39†
" Liabilities[12] ..... *Thous. Dol.*	13	101	— 87	— 87	+ y
Val. Bldg. Permits[5, f]—Total[b] ... *1935-39*	378	332	+ 14	+ 99	+ 21
Residential ..... "	370	164	+125	+136	+ 40
Nonresidential ..... "	617	769	— 20	+ 93	b
Steel Ind. Oper. Rate[13] *4 Wks. Av. % Cap.*	92	91	+ 1	+ 9	+ 17

EMPLOYMENT AND PAY ROLLS*

ITEM — Index — Base Period	Aug. 1947	July 1947	Aug. 1947 from July 1947	Aug. 1947 from Aug. 1946	8 months 1947 from 1946
Akron			%	%	%
No. Emp., All Manufac. (74)[a] *1935–39*	117	114	+ 3	+ 4	+ 8
" " Construction[g] (b)[a] .. "	b	129	b	b	b
•Pay Roll's, All Manufac. (74)[a] .. "	204	199	+ 2	+ 19	+ 24
" " Construction[g] (b)[a] .. "	b	369	b	b	b
Canton					
No. Emp., All Manufac. (70)[a] .. *1935–39*	168	171	— 2	— 5	+ 11
•Pay Rolls, All Manufac. (70)[a] .. "	276	254	+ 9	+ 10	+ 27
Cincinnati					
No. Emp., All Manufac. (373)[a] . *1935–39*	148	147	+ x	— 1	+ 10
" " Construction[g] (b)[a] .. "	b	96	b	b	b
•Pay Rolls, All Manufac. (373)[a] . "	301	294	+ 2	+ 8	+ 22
" " Construction[g] (b)[a] .. "	b	169	b	b	b
Cleveland					
No. Emp., All Manufac. (525)[a] . *1935–39*	147	149	— 1	+ 3	+ 15
" " Construction[g] (b)[a] .. "	b	493	b	b	b
•Pay Rol's, All Manufac. (525)[a] . "	302	305	— 1	+ 8	+ 25
" " Construction[g] (b)[a] .. "	b	528	b	b	b

• Indicates Series Charted (page 6). For Sources and Footnotes, see Page 2.

ITEM — Unit or Index — Base Period	Sept. 1947	Aug. 1947	Change from Last Month: Sept. 1947 from Aug. 1947	Change from Last Year: Sept. 1947 from Sept. 1946	Change from Last Year: 9 months 1947 from 1946
GENERAL BUSINESS INDICATORS					
Columbus			%	%	%
Ret. Sales–Independent Stores[4] (187)[a] %	e	e	+ 15	+ 16	+ 15
Auto Registrations:[3] New Cars *Number*	984	968	+ 2	+ 13	+ 80
" " New Trucks "	253	230	+ 10	+ 7	+ 62
Retail Food Price Index[19] *1935-39*	b	b	b	b	b
• Bank Debits Index[5,f] ..... "	262	248	+ 6	+ 12	+ 11
Commercial Failures[13] ..... *Number*	1	0	+ 1†	+ 1†	+ 3†
" Liabilities[13] ..... *Thous. Dol.*	21	0	+ r	+ r	+ r
Val. Bldg. Permits[5,f]—Total[h] ... *1935-39*	308	429	— 28	— 4	+ 23
Residential ..... "	288	418	— 31	+ 1	+ 32
Nonresidential ..... "	397	489	— 19	+152	+ 59
Dayton					
Ret. Sales—Independent Stores[4] (39)[a] %	e	e	+ 11	+ 12	+ 2
Auto Registrations:[3] New Cars *Number*	1,179	1,058	+ 11	+ 80	+153
" " New Trucks "	142	151	— 6	+ 15	+ 90
Cost of Living[20] ..... *Jan. 1939*	b	153	b	b	b
• Bank Debits Index[5,f] *1935-39*	360	331	+ 9	+ 15	+ 23
Commercial Failures[13] ..... *Number*	3	1	+ 2†	+ 3†	+ 3†
" Liabilities[13] ..... *Thous. Dol.*	289	600	— 52	+ r	+ r
Indust. Power Consumption[1,f] ... *1935-39*	278	242	+ 15	+ 16	+ 24
Val. Bldg Permits[5,f]—Total[h] ... "	545	460	+ 18	+128	+ 8
Residential ..... "	1,168	1,082	+ 8	+394	+ 93
Nonresidential ..... "	163	197	— 17	+ 78	— 41
Toledo					
Ret. Sales–Independent Stores[4] (174)[a] %	e	e	+ 13	+ 18	+ 14
Auto Registrations:[3] New Cars *Number*	1,141	1,034	+ 10	+ 58	+186
" " New Trucks "	227	170	+ 34	+ 53	+ 67
Cost of Living[20] ..... *Jan. 1939*	b	159	b	b	b
• Bank Debits Index[5,f] *1935-39*	311	311	0	+ 9	+ 21
Commercial Failures[13] ..... *Number*	1	1	0†	0†	+ 6†
" Liabilities[13] ..... *Thous. Dol.*	24	7	+243	+ r	+ r
Indust. Power Consumption[1,f] ... *1935-39*	247	230	+ 7	+ 3	+ 12
Val. Bldg. Permits[5,f]—Total[h] ... "	420	199	+111	+165	+ 7
Residential ..... "	353	315	+ 12	+ 79	— 18
Nonresidential ..... "	599	85	+606	+398	+ 62
Youngstown					
Ret. Sales–Independent Stores[4] (161)[a] %	e	e	+ 5	+ 18	+ 17
Auto Registrations:[3] New Cars *Number*	b	b	b	b	b
" " New Trucks "	b	b	b	b	b
Cost of Living[20] ..... *Jan. 1939*	b	155	b	b	b
• Bank Debits Index[5,f] *1935-39*	317	289	+ 10	+ 22	+ 33
Commercial Failures[13] ..... *Number*	0	0	0†	0†	+ 1†
" Liabilities[13] ..... *Thous. Dol.*	0	0	0	0	+249
Indust. Power Consumption[1,f] ... *1935-39*	220	196	+ 13	+ 18	+ 33
Val. Bldg. Permits[5,f]—Total[h] ... "	388	275	+ 41	+340	+ 23
Residential ..... "	477	287	+ 66	+342	+ 25
Nonresidential ..... "	177	172	+ 3	+327	+ 21
Steel Ind. Oper. Rate[13] *4 Wks. Av. % Cap.*	92	92	0	+ 1	+ 33

EMPLOYMENT AND PAY ROLLS[8]

ITEM — Index — Base Period	Aug. 1947	July 1947	Aug. 1947 from July 1947	Aug. 1947 from Aug. 1946	8 months 1947 from 1946
Columbus			%	%	%
No. Emp., All Manufac. (116)[a] . *1935–39*	137	128	+ 7	+ 13	+ 12
• Pay Rolls, All Manufac. (116)[a] . "	366	334	+ 10	+ 29	+ 31
Dayton					
No. Emp., All Manufac. (117)[a] . *1935–39*	179	183	— 2	+ 11	+ 23
" " Construction[g] (b)[a] .. "	b	94	b	b	b
• Pay Rolls, All Manufac. (117)[a] . "	464	470	— 1	+ 26	+ 44
" " Construction[g] (b)[a] .. "	b	242	b	b	b
Toledo					
No. Emp., All Manufac. (124)[a] . *1935–39*	116	113	+ 2	+ 5	+ 15
• Pay Rolls, All Manufac. (124)[a] . "	202	198	+ 2	+ 13	+ 23
Youngstown					
No. Emp., All Manufac. (77)[a] .. *1935–39*	144	142	+ 1	+ 12	+ 28
" " Construction[g] (b)[a] .. "	b	64	b	b	b
• Pay Rolls, All Manufac. (77)[a] .. "	292	272	+ 7	+ 32	+ 43
" " Construction[g] (b)[a] .. "	b	134	b	b	b

• Indicates Series Charted (page 7). For Sources and Footnotes, see Page 2.

the Chief Ohio Cities

COLUMBUS

Retail sales of 187 independent stores went up 15 per cent in September from August, 16 per cent from September, 1946, and increased 15 per cent for the first 9 months of 1947 as compared with the same period last year. September bank debits rose 6 per cent from August and 12 per cent from September, 1946. September registrations of new cars were up 2 per cent from August, 13 per cent from September, 1946, and 89 per cent for the year to date as compared with the same period last year. The total value of building permits in September dropped 28 per cent from August, and 4 per cent from September, 1946.

Employment in manufacturing industries and also pay rolls in manufacturing industries showed an increase in August from July, employment showing a 7 per cent increase, and pay rolls a 10 per cent increase.

DAYTON

September retail sales of 39 independent stores showed an 11 per cent increase from August, 12 per cent from September, 1946, and 2 per cent for the first 9 months of 1947 as compared with the same period last year. The total value of building permits advanced 18 per cent in September from August. New car registrations totaled 1,179 for September which was an increase of 11 per cent over August. Industrial power consumption rose 15 per cent in September over August.

Employment in manufacturing industries in August dropped 2 per cent from July, and pay rolls in manufacturing industries dropped 1 per cent in August from July.

TOLEDO

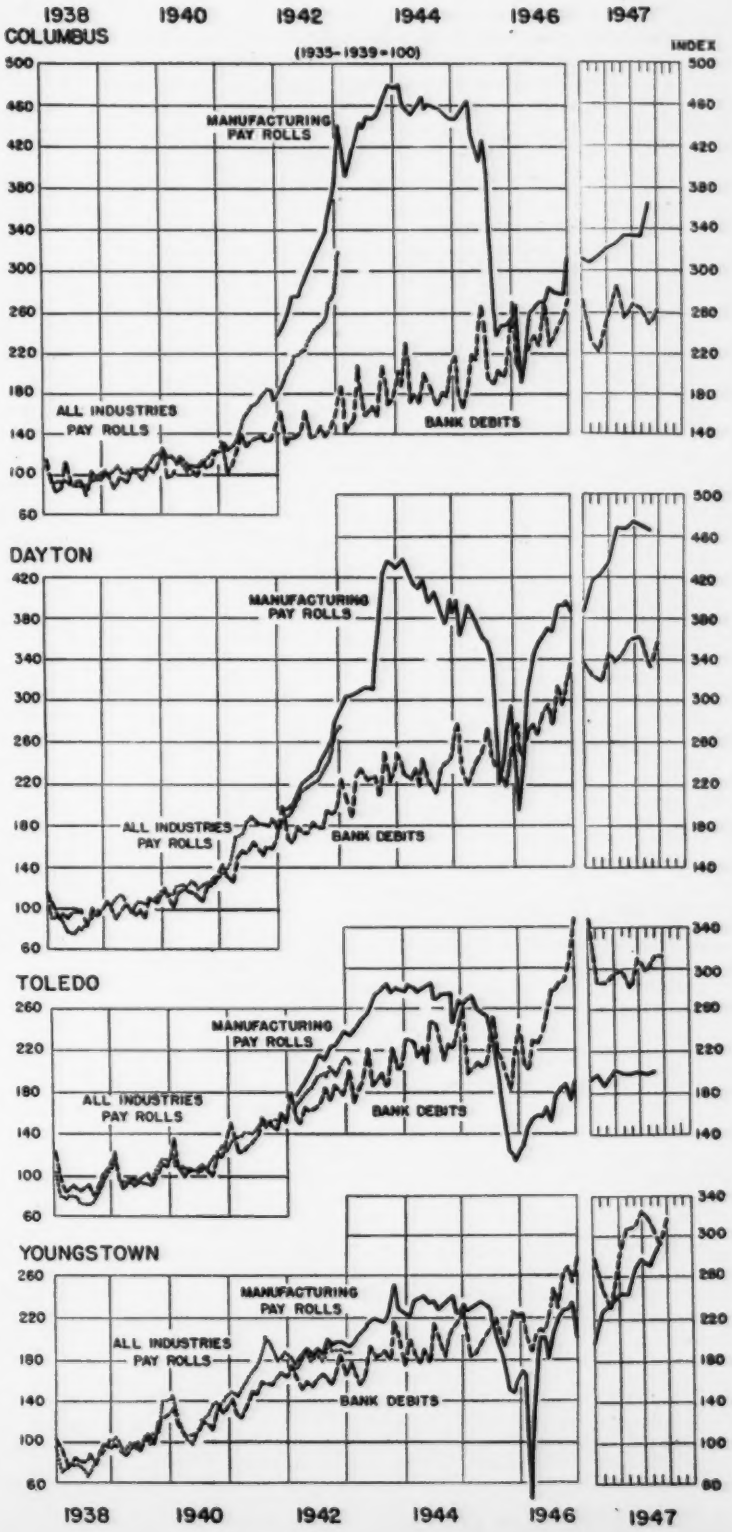
September sales of 174 retailers increased 13 per cent over August, 18 per cent over September, 1946, and were up 14 per cent for the first 9 months of 1947 as compared with the same period last year. Registrations of new cars in September advanced 10 per cent over August and 58 per cent over September, 1946. The total value of building permits showed an increase of 111 per cent over August, and 165 per cent over September, 1946.

Employment and pay rolls in manufacturing industries both showed an increase of 2 per cent in August over July.

YOUNGSTOWN

Sales of 161 independent retail stores advanced 5 per cent in September over August, 18 per cent over September, 1946, and 17 per cent for the first 9 months of 1947 as compared with the same period last year. Bank debits in September rose 10 per cent from August and 22 per cent from September, 1946. The total value of building permits in September showed a 41 per cent increase over August. The steel industry operating rate was 92 per cent of capacity in September, which was the same rate as August.

Employment in manufacturing industries rose 1 per cent over July, while August pay rolls in manufacturing industries rose 7 per cent over July.



RECENT POPULATION ESTIMATES FOR OHIO AND OTHER STATES

The estimated civilian population of the 10 largest states, the number of births and deaths and the net migration for the period 1940-1946, are indicated in Table 1. The net change in the civilian population represents the excess of births over deaths, plus the estimate of net migration to the states, less an estimate of the net loss to the armed forces. Table 2 indicates the estimated total population excluding armed forces overseas for the 10 largest states.

Ohio Civilian Population

Ohio, with a population of 7.5 million, ranked 5th among the states in civilian population in 1946. In 1940, at the time of the last census, population in Ohio was 6.9 million.

Table 1.—Estimated Civilian Population and Changes in Civilian Population for the United States and Ten Largest States, April 1, 1940-July 1, 1946

State	Civilian Population July 1, 1946	Net Change Civilian Population	Natural Increase		Net Migration
			Births	Deaths	
New York	13,693,244	+ 230,827	1,457,048	971,533	+ 56,960
Penna. ...	10,004,220	+ 108,340	1,172,210	703,635	— 112,939
California.	9,342,036	+2,484,666	1,010,633	550,082	+2,218,829
Illinois ...	7,945,740	+ 58,547	917,027	565,624	— 110,850
OHIO ...	7,498,836	+ 593,778	867,535	505,196	+ 413,525
Texas ...	6,808,813	+ 419,464	1,063,829	386,610	— 121,092
Michigan .	6,049,897	+ 797,018	733,599	344,161	+ 544,590
Mass.	4,568,026	+ 254,227	487,381	328,419	+ 205,496
N. Jersey.	4,217,108	+ 60,514	476,666	300,701	— 12,151
Missouri .	3,766,195	— 17,553	457,058	272,748	— 119,912
U. S....	138,394,474	+6,992,489	18,136,659	8,977,135	+ 785,780

Source: "Current Population Reports," Series P-25, No. 2, Bureau of the Census, United States Department of Commerce.

In order to arrive at the net increase in civilian population of 593,778 persons in Ohio, the natural increase of 362,339 persons (867,535 births less 505,196 deaths) was added to the net interstate shift of 415,525 persons into Ohio, from which total was substracted the net loss to the armed forces of 182,086 persons.

Net Migration 1940-1946

Interstate migration data gives some indication of the mobility of labor as measured by relatively distant residence changes. Some of the more important reasons for moving are to take a job elsewhere; to look for work, because of housing problems, because of a change in marital status, for health reasons, and because the head of the family moved for one or more of the above reasons.

In general, the interstate shift took place from the southern to the western regions of this country. The south had an excess of out-migration over in-migration of 2.5 million persons, while the west had an excess of in-migration over out-migration of 2.7 million persons.

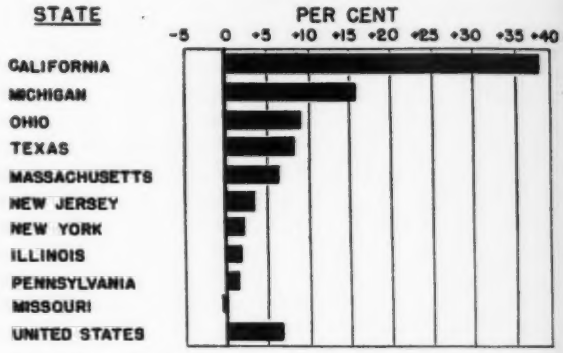
The greatest excess of in-migration over out-migration among the various states occurred in California where the net migration was over 2.2 million persons. Michigan ranked second with a net migration of more than .5 million persons, and Ohio third with more than .4 million persons.

The greatest excess of out-migration over in-migration among the states took place in North Carolina, where the excess was 367,711 persons. Other states in which the loss was in excess of 300,000 or more were Kentucky, Alabama, Georgia and Mississippi. Additional states with excess of more than 200,000 but less than 300,000 were Oklahoma, Arkansas, South Carolina and West Virginia.

Per Cent Change in Total Population 1940-1946

Of the 10 largest states, California experienced the biggest relative increase in population, 38 per cent (Table 2); Michigan followed with an increase of 15 per cent; Ohio ranked third with about 9 per cent; Texas fourth with close to 9 per cent; and Massachusetts followed with

PER CENT CHANGE IN TOTAL POPULATION EXCLUDING ARMED FORCES OVERSEAS, TEN LARGEST STATES, 1940-1946



Source: Table 2

6 per cent. New York, Pennsylvania, Illinois and New Jersey had population increases of less than 4 per cent. Only 1 of the 10 largest states, Missouri, experienced a decrease in population, which was less than 1 per cent.

Among the smaller states relatively large population increases took place in Oregon, 33 per cent; Washington, 30 per cent; Arizona, 25 per cent; Nevada, 23 per cent; Florida, 22 per cent; and Maryland, 20 per cent. In 6 other states population increased more than 5 per cent but less than 20 per cent. An additional 13 states had increases in population of 5 per cent or less.

Table 2.—Estimated Population Excluding Armed Forces Overseas, The United States and Ten Largest States, July 1, 1946 and April 1, 1940

State	Total Population Excluding Armed Forces Overseas			
	July 1, 1946	April 1, 1940 (Census)	Increase (+) or decrease (—), 1940-1946	
			Number	Per Cent
New York	13,741,836	13,479,142	+ 262,694	+ 1.9
Pennsylvania ...	10,023,750	9,900,180	+ 123,570	+ 1.2
California	9,550,727	6,907,387	+2,643,340	+38.3
Illinois	8,028,453	7,897,241	+ 131,212	+ 1.7
OHIO	7,516,855	6,907,612	+ 609,243	+ 8.8
Texas	6,959,481	6,414,824	+ 544,657	+ 8.5
Michigan	6,064,899	5,256,106	+ 808,793	+15.4
Massachusetts ..	4,590,254	4,316,721	+ 273,533	+ 6.3
New Jersey	4,304,261	4,160,165	+ 144,096	+ 3.5
Missouri	3,776,250	3,784,664	— 8,414	— 0.2
United States.	139,893,406	131,669,275	+8,224,131	+ 6.2

Source: "Current Population Reports," Series P-25, No. 2, Bureau of the Census, United States Department of Commerce.

In four states, relatively large losses in population occurred. In North Dakota population decreased 16 per cent; in South Dakota and Montana, 15 per cent; and in Idaho, 10 per cent. In nine other states population decreased 5 per cent or less.

Sam Arnold.